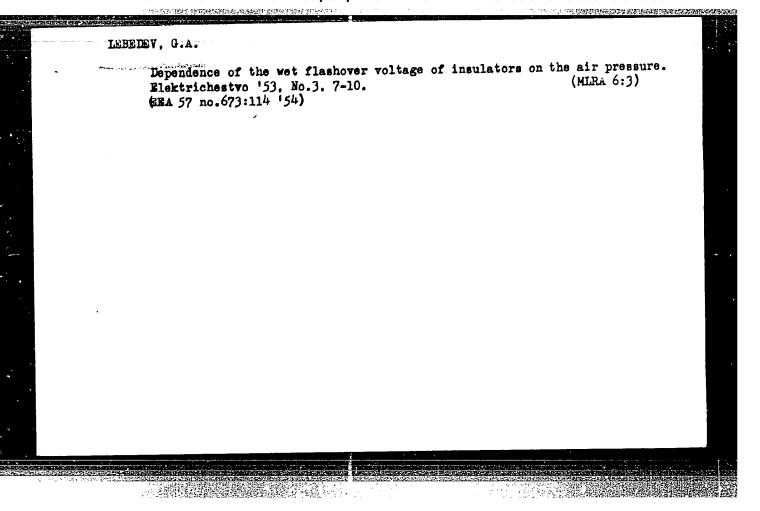
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L 1162-66 ACCESSION NR: AP5012840					
ber of fungal antibiotics ar tion with sublethal doses of pointed out, and recommendat	e mentioned as prointed insecticides. Do	omising ag eficiencie r future r	ents, espec s in curren esearch.	ially in co t work were	mbina-
ASSOCIATION: None				B CODE:	LS
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LEBEDEV, G.A.; KUVSHINSKIY, Ye.V.

Origin of patterns of the failure surfaces of polymethyl-mathacrylate. Dokl. AN SSSr 108 no.6:1096-1097 Je '56. (MIRA 9:10)

1. Institut vysokomolekulyarnykh soyedineniy ^Akademii nauk SSSR. Predstavleno akademikom A.V. Karginym.

(Methacrylic acid)

LEBLDEV, G. A.

KURCHINSKIY, E. V., LEBEDEV, G.A. Institute of High Molecular Compounds of the Acad. Sci. USSR, Leningrad

"High Elasticity Deformation of Hard Amorphous Materials of Polymethyl-Metacrilat Type."

Paper submitted at Program of the Confference on the Non-Metallic Soldids of Mechanical Properties. L May 19 - 26, 1958

LEREDEV, Gennadiv Aleksandravich; LYUSTIBERD, V.F., inzh., ved. red.;

DAYCHIK, M.L., inzh., red.; SOROKINA, T.M., tekhn. red.

[Apparatus for testing the characteristics of polymer samples under tensile stress]Ustanovka dlia isaledovaniia kharakteristik polimernykh obraztsov pri rastiazhenii. Moskva, Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 7 p. (Peredovoi nauchno-tekhnicheskii i proizvodstvennyi opyt. Tema 32.

No.P-58-61/10)

(Folymers--Testing)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020001-8"

LEBELEV, G. A., Ye. A. KUVSHINSKIY, M. I. HESSONOV and G. K. MAKHAROV

"The Strength of Amorphous Bodies, Especially Polymers."

report presented at the Conference on Investigation of Mechanical Properties of Ron-Metals, by the Intl. Society of Pure and Applied Physics and the AS USSR, at Leningrad, 19-24 May 1958.

(Vest. Ak Hauk BSSR, 1958, no. 9, pp. 109-111)

LEHEDEV, G. A., HESSONOV, M. I., MAKHAROV, S. K., and KUVSHINSKIY, E. V.

Mechanical Rupture of Hard Polymer Materials."

report premented at the Conf. on Mechanical Properties of Non-Metallic Solids. Leningrad, USSR, 19-26 May 1958.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020001-8"

S/181/60/002/01/22/035 B008/B014

AUTHORS:

Lebedev, G. A., Kuvshinskiy, Ye. V.

TITLE:

Rules Governing the Deformation of Amorphous Polyme avlmethacrylated and Polyvinylacetated by Cold Extraction

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 1, pp. 96-105

TEXT: The article under review shows that it is possible to elongate polymers below the temperature of vitrification continuously (without constrictions) and to study the stress-strain curves quantitatively. Samples with a cross section of up to 1 mm² were subjected to tensile tests in the temperature range $+20 \div +160^{\circ}\mathrm{C}$. The authors studied polyvinylacetate (PVA) and polymethylmethacrylate (PMMA). The changes in the length and cross section of the samples were examined visually and photographically. Analyses of numerous experiments have shown that stress-strain curves usually show peaks in their initial sections if the sample does not tear up to an elongation of \sim 10 per cent. Contractions were not ob: rved in every case (Fig. 1). It may be assumed that the density of

Card 1/3

VC

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020001-8

Rules Governing the Deformation of Amorphous Polymethylmethacrylate and Polyvinylacetate by Cold Extraction S/181/60/002/01/22/035 B008/B014

the material changes only slightly during the tensile test. Table 1 shows that the change of (1b2) does not exceed 2.5 ÷ 1.4% at a degree of elongation of 1 ≤ N ≤ 2.25. In addition to the stress-strain curves of PVA foil, Fig. 2 shows drawings of samples elongated to different extents. It was established that the existence of a peak need not be caused by contraction. The development of a contraction is always accompanied by a "plateau" on the stress-strain curve (Section AB in Fig. 1). Relaxation occurs in addition to elastic deformation (Fig. 3). It was proved that the increase of stress is actually due to elastic deformation. A theory of the process of elongation is established on the basis of a generalization of the relations of Maxwell's theory concerning viscous-elastic media. Theoretical stress-strain curves characterized by a steep rise and a flat drop are represented in Fig. 4. The descending branch of the curve (Fig. 4b) represents the dynamic equilibrium between the increase in stress and its relaxation. A differential method was developed for analyzing the intermittent stress-strain curve (Figs. 5 and 6). It is suited for an exact and reliable determination of the differential

VC

Card 2/3

Rules Governing the Deformation of Amorphous Polymethylmethacrylate and Polyvinylacetate by Cold Extraction

S/181/60/002/01/22/035 B008/B014

modulus of normal elasticity E and of the rate of relaxation $\frac{\partial g}{\partial t}$ at various stages of deformation. There are 6 figures, 2 tables, and 3 Soviet references.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR, Leningrad (Institute of High-molecular Compounds, AS USSR, Leningrad)

SUBMITTED: April 14, 1959

VC

Card 3/3

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000929020001-8

s/181/61/003/009/018/039 B102/B104

AUTHORS:

Lebedev, G. A. and Kuvshinskiy, Ye. V.

TITLE:

Structural characteristics of the "silver" cracks in poly-

methyl methacrylate films

PERIODICAL:

Fizika tverdogo tela, v. 3, no. 9, 1961, 2672 - 2679

TEXT: The structure of the so-called "silver" cracks which form in the deformation of polymethyl methacrylate and polyvinyl acetate at temperatures below the vitrification point was studied with the aid of the microscope MKY-1(MKU-1). It was shown that these strongly light-scattering cracks are filled with polymer substances whose nature was changed. For the production of these cracks various films were elongated at temperatures of up to 80°C. Subsequently, microphotographs were taken in transmitted, reflected, and obliquely reflected light. The authors also made interference pictures with an MNN-1(MII-1) interference microscope. It was found that 20-30-M deep and about 10-M wide cuneiform cracks had formed which were almost completely filled with porous polymer whose optical properties considerably differed from the original properties. The polymer in the cracks showed very fine

Card 1/2

CIA-RDP86-00513R000929020001-8" APPROVED FOR RELEASE: 08/31/2001

Structural characteristics of

S/181/61/003/009/018/039 B102/B104

transverse cracks connecting the edges of the main crack. Special experiments with treatment at different temperatures (up to 120°C) showed that obviously due to the heat the "silver" filling the cracks shrinks (compression). The cracks did not disappear upon heat treatment without deformation of the films. This could be easily achieved by compression at room temperature although the cracks remained visible under the microscope. There are 6 figures and 6 references: 4 Soviet and 2 non-Soviet. The latter read as follows: B, Maxvell, L. Rahm. Ind. Eng. Chem., 41, 1948, 1949. C. Hsiao, J. Sauer, J. Appl. Phys. 21, 1071, 1950.

ASSOCIATION: Institut vysokomolekulyarnykh soyedineniy AN SSSR Leningrad (Institute of High-molecular Compounds AS USSR; Leningrad)

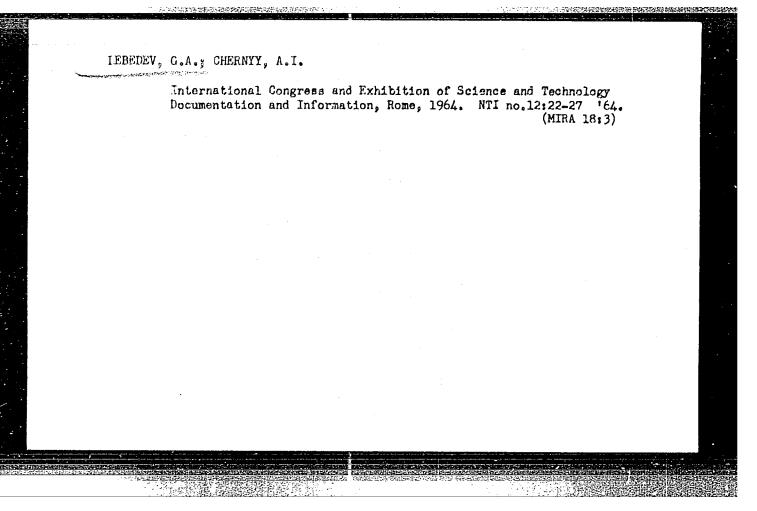
SUBMITTED: April 10, 1961

Card 2/2

LEBEDEV, G.A.; KUZNETSOV, V.P.

Review of G.S.Berger's book "Flotability of minerals." TSvet.
met. 36 no.8:95 Ag '63.

(Flotation)
(Berger, G.S.)



Cutting narrow grooves in multitrack heads of magnetic recorders.
Stan. i instr. 36 no.8:41 Ag '65. (MIRA 18:9)

- 1. LEBEDEV, G. D.
- 2. USSR (600)
- 4. Public Health
- 7. Further observations on the activities of a regional sanitary-epidemiological station. Fel'd. i akush. Ne.10, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

LEBEDEV, G. F.

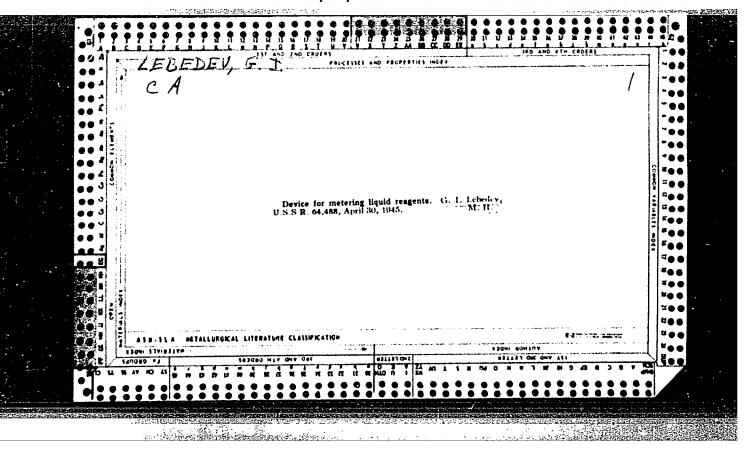
BORISOVSKIY, V. S. and LEBEDEV, G. F. Economical Testing of Internal CombustionEngines (Ekonomichnyy Sposob Ispytaniya Dvigateley Vmutrennego Sgoraniya), pp. 8-9

The suggestion deals with a new arrangement of electrical motor equipment used for testing tractor engines. This suggestion won a fourth prize at the Seventh All-Union Cont st on Power Economizing (Drawing).

SO: PROMYSHLENNAYA ENERGETIKA, No. 10, Oct. 1952, Moscow (1502270)

LEBEDEV, G.G. TEZ diesel locomotives should be modernized. Elek. 1 tepl. tizga 4 no.11:43 N '60. (MIRA 13:12) 1. Nachal'nik depo Aktyubinsk. (Diesel locomotives)

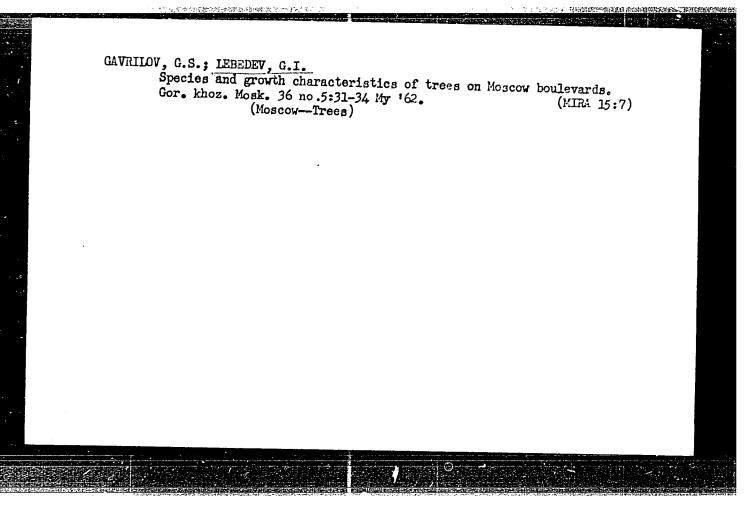
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020001-8"



LEBEDEV, G.I.

Akklimatizatsiia drevesnykh kustarnikovykh porod (Acclimatization of shrubs) Moskva, Izd-vo Ministerstvo kommunal'nogo khoziaistva RSFSR, 1953. 140 p.

SO: Monthly List of Russian Accessions, Vol. 7, No. 5, August 1954



LEBEDEV, G.I.; MEZHOV, A.I.; BORISOV, I.I.

Diagnosis of staphylococcal food poisonings. Zhur.mikrobiol., epid.i immun. 32 no.12:116 D '61. (MIRA 15:11)

1. Iz sanitarno-epidemiologicheskoy stantsii, Petropavlovsk-Kamchatskiy.

(FOOD POISONING) (STAPHYLOCOCCUS)

ACC NR: AP6034117 SOURCE CODE: UR/0358/66/035/005/0612/0615

AUTHOR: Lebedev, G. I.; Provorov, I. A.; Zubkovich, B. A.

ORG: none

TITLE: Data from a study of rodents and their ectoparasites in

SOURCE: Meditsinskaya parazitologiya i parazitarnyye bolezni, v. 35, no. 5, 1966, 612-615

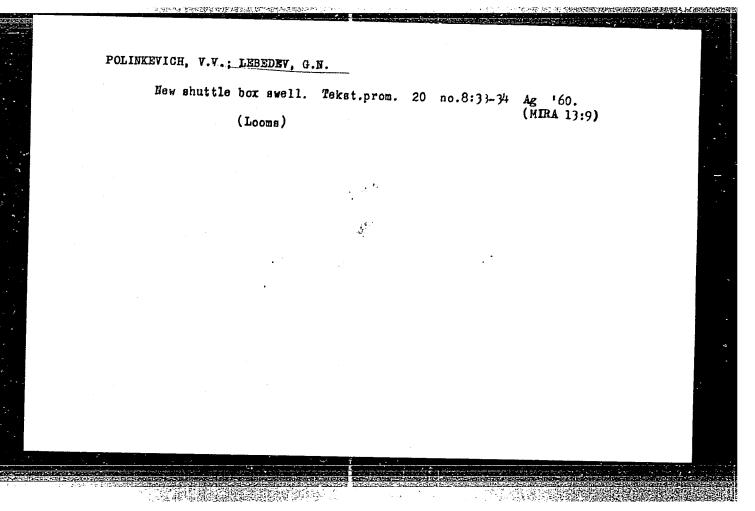
TOPIC TAGS: epidemiology, epizootic, rodent, disease vector, parasi-

ABSTRACT: Parasites found on rodents in Kamchatka were studied to determine their relative species composition and prevalence. They are most common in the summer months. Table 1 shows the species and their hosts. Orig. art. has: 2 figures and 2 tables. [W.A. 50]

Card 1/2

UDC: 599.32-167+576.89](571.66)

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AP6017957 SOURCE CODE; UR/0413/66/000/010/0025/0025 INVENTOR: Lebedev, G. N.; Serebryakova, A. V.; Starshenko, V. I.; Rogatkin, A. A.; Pundrovskiy, V. P.; Khlopkov, L. P.

ORG: None

ACC NRI

TITLE: A method for removing phosgene from gases. Class 12, No. 181621

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 25

TOPIC TAGS: phosgene, gas, filtration

ABSTRACT: This Author's Certificate introduces a method for removing phosgene from gases, particularly from waste gases in the production of titanium tetrachloride. The degree of purification is increased by adding hydrogen to the vapor-gas phase at

SUB CODE: 07/ SUBM DATE: 19Mar64

Card

ШC 66.074.66

SMIRNOV, V.I., kand. tekhn. nauk; LEBEDEV, G.P., inzh.

Methods of coordinate hull fitting and allowances for its assembly.
Sudostroenie 22 [i.e.23] no.10:32-37 0 '57. (MIRA 11:2)

(Hulls (Naval architecture)) (Shipfitting)

SOV/110-58-7-12/21 Lebedev, G.P., Engineer, and Loshchinina, N.I., Engineer.

TITLE:

AUTHOR:

Frame-type elements for oscillograph LP02. (Ramochnyye vibratory k ostsillografu tipa PO2.)

PERIODICAL: Vestnik Elektropromysklennosti, 1958, Er 7 pp 1-1-42 (USCR)

ABSTRACT: The frequency characteristics of the usual oscillograph elements type MOV2 are given. Even the most sensitive of these requires a current of 1 mA to deflect the light spot across half the film width, so that amplifiers are sometimes required. New elements types 1002-9 and-10 have the following

> Sensitivity Em/ma.metre MOV2-9 1.072-10 250 Matural frequency in air, c/s 1000 Internal resistance, ohns 1400 200 Permissible current amplitude, mA 55

The construction of the elements is illustrated in Fig. 1 Card 1/2 and briefly described. The resistance of these elements

Frame-type elements for oscillograph PP02.

807/110-50-7-12/21

to vibration is not very good, moreover they have somewhat anomolous frequency characteristics with marked variations in sensitivity in particular ranges of frequency. The frequency characteristics of elements with a natural frequency in air of 200 c/s short-circuited on a low external resistance are given in Fig. 3. Curves 1 & 3 relate to elements that are badly balanced and Curve 2 to an element with a carefully belanced frame. Vibrations of the frame caused by internal vibrations in the oscillograph can be damped by immersing the elements in liquid, which also damps forced oscillations. Changes in frequency characteristics as functions of external impedance are shown in Fig. 3. Arrlitude/frequency characteristics of a frame-type element taken at various temperatures are given in Fig. 4. If the rises by 4 - 18%. There are 4 figures.

SUBMITTED: November 1, 1957.

1. Oscillographs--Design 2. Oscillographs--Performance

8 (2)

Lebedev, G. P., Engineer

SOV/119-59-7-7/18

AUTHOR:

On the Problem of Damping in Self-recorders with Recording by

TITLE:

Means of a Jet of Ink

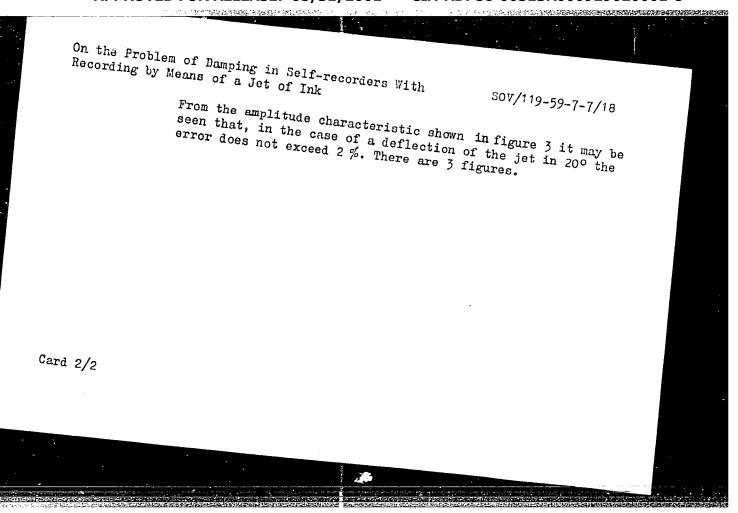
PERIODICAL:

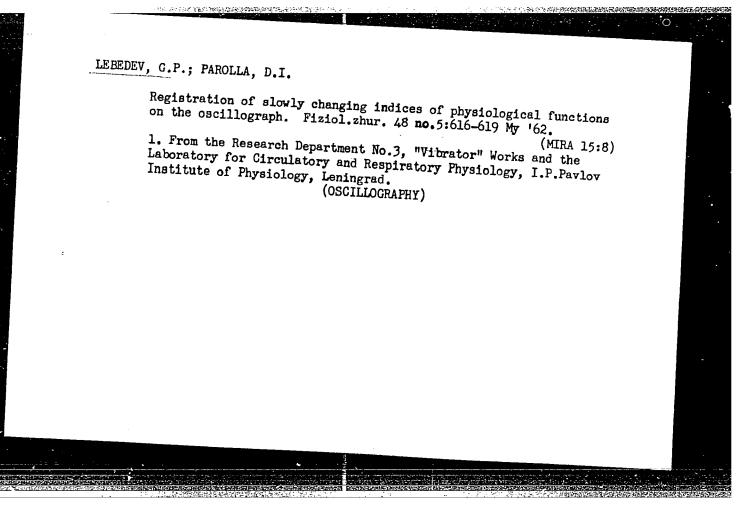
Priborostroyeniye, 1959, Nr 7, pp 19-20 (USSR)

ABSTRACT:

In the introduction to the present paper it is said that in technical publications nothing has hitherto been said about investigations of the manner of damping and its calculation in self-recorders, and it is assumed to be known that the motion of a loop-oscilloscope, into which no damping has been built, cannot describe the amplitude-frequency characteristic. The looposcilloscope with jet-self-recorder shown by figure 1 is discussed, and the differential equation (1) is given for the deflection of the jet. Furthermore, damping is calculated, and damping-moment and the degree of damping are given by equations (6) and (7) respectively. This degree of damping is a function of the dimension of the capillaries of the ink pressure, and of the loop parameter of the oscilloscope. As, normally, ink pressure can be regulated only in stages, recording is thereby hampered; furthermore, the recording error is estimated.

Card 1/2





MIKHAYLOV, Pavel Aleksandrovich; LEBEDEV, G.P., red.; SOBOLEVA,
Ye.M., tekhn. red.

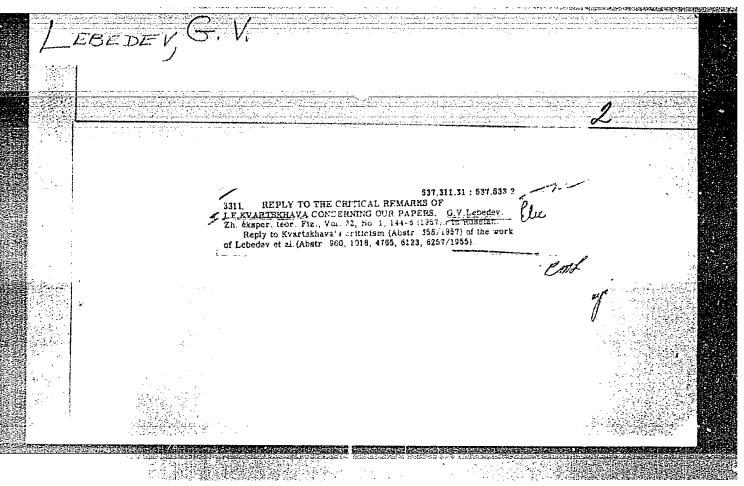
[Repair of electrical measuring devices] Remont elektroimmerited mykh priborov. Moskva, Izd-vo "Energiia,"
1964. 413 p.

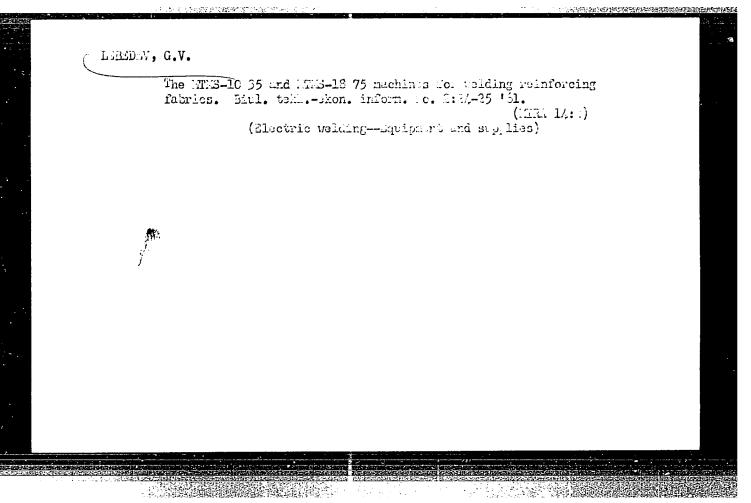
(MIRA 17:2)

ACC NR: AP6032538 SOURCE CODE: UR/0413/66/000/017/0149/0149 INVENTOR: Brant, A. A. Kostyuchenko, K. A.; Lebedev, G. P.; Zharov, V. M. ORG: none TITLE: A method of fastening fillers to plastic paneling of two- and three-layered marine gear and equipment structures. Class 65, No. 185716 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 17, 1966, 149 shiptuilling dengineering, filler, plastic product TOPIC TAGS: Vfastener, atmostune ABSTRACT: This Author Certificate introduces a method of fastening fillers to plastic paneling of two- and three-layered marine gear and equipment structures by means of plastic plugs inserted between the panels. For greater holding power and more esthetic appearance of the assembly, the seats for the fasteners are formed by making cylindrical channels between the panel layers with diameters larger than the opening in the panel. An adjuster crew is inserted into the channel and the space around it is filled with a solidifier which forms a threaded sleeve for the fastener when the adjuster screw is screwed out. Orig. art. has: 1 figure. 13/// SUBM DATE: 21Jun65/ SUB CODE: Card UDC: 629.12.011.28: 002.29:629.12.01

CIA-RDP86-00513R000929020001-8"

APPROVED FOR RELEASE: 08/31/2001





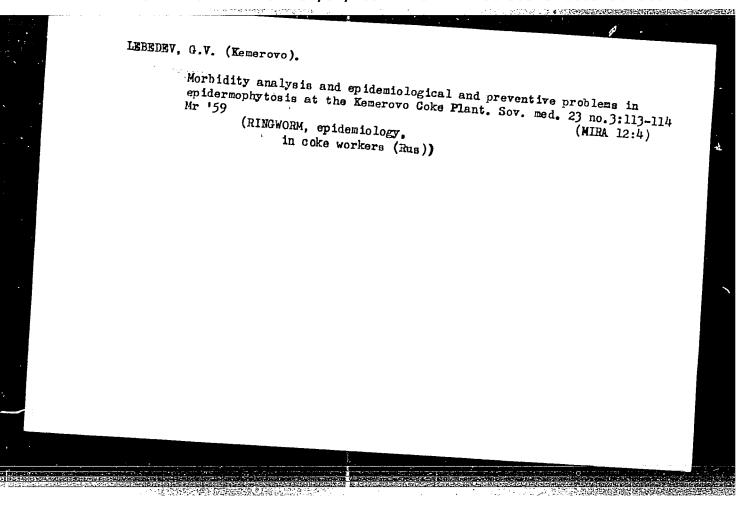
"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000929020001-8 5/193/62/000/004/004 A004/A201 WTB-2 x 150/1600 (WTV-2 x 150/1600) welding machine for spot-welding large-size components Byulleten' texhniko-ekonomichetikov informatsii, no. 4, 1962, 21-23 The "Elektrik" Plant has designed and manufactured of raiload car resistance spot-welding of raiload car raiload car resistance spot-welding of raiload car resistance spot-welding of raiload car resistance spot-welding of raiload car resistance spot-welding nachine for electric resistance spot-welding nachine spot-weldi TEXT: 1600 welding machine for from low-carbon steel of and wall sections from low-carbon sectio 150/1600 welding machine for electric resistance spot-welding of thickness with a distance spot-welding spots with a distance spot an aggregate in two spots with a distance spot and aggregate and spot and simultaneously in two spots with a distance spot and aggregate and spot an welding macrine for electric carbon steel of an two spots with a two spots from firon low-carbon steel of an two spots from the component guns of the front and make components while the welding current welding of the operation of the front and me components of the transition of the spots of 19306 which is realized me component the component the component the clamping wins. "Tight angles me clamping is altered to the clamping of the clamping order: welding guns located the operation of the hydrauli author welding cycle is automated and takes of the hydrauli author welding component between the electrodes of AUTHOR: welding suns. The clamping the component under pressure with the clamping the component welding following order; peening (nolding suns, welding, peening the clamping the component under pressure with the suns. TITLE: PERIODICAL: ے 2. OVED FOR RELEASE

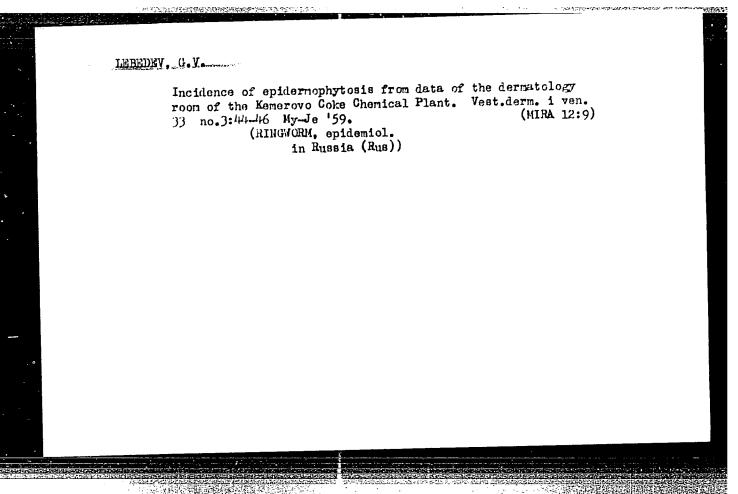
S/193/62/000/004/004/008 A004/A101

MTB-2 x 150/1600 (MTV-2 x 150/1600) ...

current being switched off) and relieving the pressure (the electrodes are lifted and the component freed). Apart from a stepped regulation of the welding current power, the welder possesses a phase-regulating unit which makes it possible to change the current magnitude smoothly. The pressure between the gun electrodes is generated by a pneumatic-hydraulic assembly mounted on the welding machine. The maximum pressure between the gun electrodes amounts to 1,100 kg. The following technical specifications are given: Primary voltage - 380 v, secondary voltage - from 4.74 to 5.62 v; rated power - 2 x 150 = 300 kV-amp; switch-on duration (duty cycle) 3% (which can be increased to 5%); number of secondary voltage regulation stages - 3; maximum electrode working gravel - 30 mm; clearance between the upper and lower beams - 375 mm; useful overhang - 1,600 mm; rated compressed-air pressure - 4.5 kg/cm²; free air consumption - 5 m³/ hour; cooling water consumption - 800 1/h; overall dimensions (height x width x depth) - 1,950 x 800 x 3,350 mm; machine weight - 1,700 kg. The MTV-2 x 150/1600 welding machine has been installed and operates at the Leningradskiy vagonostroitel'nyy zavod im. Yegorova (Leningrad Railroad Car Plant im. Yegorov). There is 1 figure.

Card 2/2





LEBEDEV, G.V.

Role of epidermophytosis in the etiology and pathogenesis of eczema. Vest.derm.i ven. [35] no.2:46-50 F '61. (MIRA 14:3)

1. Iz Kemerovskogo oblastnogo venerologicheskogo dispanseya (glavnyy vrach A.V. Kuchinskaya).
(ECZEMA) (RINGWORM)

LEBEDEV, G. V.

USSR/Biology - Plant Physiology

Card

: 1/1

Authors

: Lebedev, G. V.

ul naturat programat programatica de la la compania de la programa

Title

: Effect of irrigation on the tannin composition of Azerbaidzhan tea

Periodical

Dokl. AN SSSR, 96, Ed. 6, 1257 - 1259, June 1954

Abstract

The basic component of a tea leaf, which determines the quality of the raw material and the ready product as well, is tannin (tannic acid). This component participates in the formation of the herb infusion, aroma and taste properties of the beverage (tea). The effect of irrigation on the tannin composition of tea is explained. Nine references. Graphs, illustrations.

Institute

: Acad. of Sc. USSR, The K. A. Timiryazev Institute of Plant Physiology

Presented by: Academician A. L. Kursanov, April 20, 1954

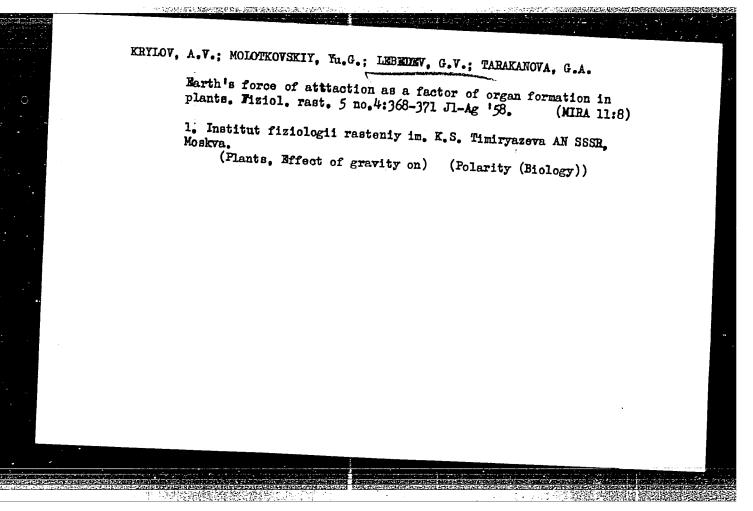
PETINOV, N.S.; LEBEDEV, G.V.

Tea plantation irrigation in the Lenkoran area of the Azerbaijan S.S.R. Fiziol.rast. 2 no.3:228-234 My-Je '55. (MLRA 8:11)

1. Institut fiziologii rasteniy imeni K.A.Timiryazeva Akademii nauk SSSR, Moscow (Azerbaijan--Tea)

-35-

COUNTRY : USSR CATIGGRY : Plant Physiology, Water Conditions. 1 ASS. JOUR. : RZhBiol., No. 3 1959, No. 10614 : Petinov, N. S. , Lebedev, G. V. AUTHOR TNGT : Academy of Sciences US53" : The Water Content in Ten Plants Cultivated TITLE under Irrigation. ORIG. PUB. : Vab.: Pamyati akad. N. A. Maksimova. M., AN ESH, 1957, 87-97 The index of refraction, concentration of cell gap, water ABSTRACT holding and water absorbing capacity of adult tea leaves were being determined in the presence of different amounts of soil moisture for the purpose of ascertaining the water application dates for the tea plantations in Lankoranskiy rayon of Azerbaydzhan SSR. in the period of rainfall on the unirrigated plot and the sprinkled plot. the difference in the indices of refraction is not great. In the period of high temperatures and relatively low 377.D. 1/2 14



17(4).30(1)

AUTHOR:

Lebedev, G. V.

SOV/20-128-3-55/58

TITLE:

The Rate of Water Exchange in Swollen Plant Seeds

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 632-634

(USSR)

ABSTRACT:

As is known, the seeds swell due to hydration of their colloids. The hydrating water is regarded to be bound. The level of the forces binding the water determines the hydration degree of these biocolloids. This, however, does not explain the dynamic part of the process, or - in other words - the rate mentioned in the title is not determined if a fully swollen colloid is present. In the present paper, the author used the interferometric method of determining heavy water. Some of the problems solved at the same time with respect to this method are published. At first, the applicability of D,0-solutions for

plant experiments was tested. Table 1 shows that a certain dilution of D₂O takes place in the seeds after steeping. Table 2 shows that the D20 - H20-mixture moves within the entire mass of

seed without causing a separation of these components. Further,

Card 1/3

gourd- (sort Volzhskaya seraya) and horse-bean seeds

The Rate of Water Exchange in Swollen Plant Seeds

SOV/20-128-3-55/58

(sort Russkiye chernyye), which had been steeped in a 4.5% Do-solution, were put into current water. Table 5 shows that the weight of these seeds remained unchanged for 24 h, i.e. no water was absorbed by colloidal and osmotic forces. Thus, all changes in the isotopic composition of the water were connected with its mobility due to diffusion. Table 4 shows that after the above-mentioned rinsing the entire water (marked with deuterium) was washed out of the seeds, and was replaced by the protium water. This applied to both living and killed seeds. To clarify accurately the dynamics of this process, samples for the isotopic composition of the water were taken in various short intervals during rinsing. Figure 1 shows that the rate mentioned in the title is rather high, particularly in the external layers of the seed (50% of the water was renewed within the 1st hour). In deeper layers, this value amounted to 20%. In beans, the rinsing proceeded more slowly than in gourd which is due to the size

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The Rate of Water Exchange in Swollen Plant Seeds

SOV/20-128-3-55/58

of seed. In seed killed by heat, the said rate was higher than in living seed (probably due to the disturbance of certain cellular structures). Thus, the water retained by colloids is very movable and easily exchangeable. There are 1 figure, 3 tables, and 8 Soviet references.

ASSOCIATION:

Institut fiziologii rasteniy im. K. A. Timiryazeva Akademii nauk SSSR (Institute of Plant Physiology imeni K. A. Timiryazev of the Academy of Sciences, USSR)

PRESENTED:

June 5, 1959, by A. L. Kursanov, Academician

SUBMITTED:

June 4, 1959

Card 3/3

LEBEDEV, G.V.

門工學時件數學文學

An economical fine sprayer for liquids at low pressure. Fiziol. rast. 7 no.1:127-128 *60. (MIRA 13:5)

1. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Spraying and dusting equipment)

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PFTINOV, N.S.; LEHEDEV, G.V.

Activity of oxidizing enzymes and respiration of leaves in tea plants grown under irrigation. Biokhim. chain. proizv. no.8: 21-25 '60. (MIRA 14:1)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva. (Tea--Irrigation) (Catalase) (Plants--Respiration)

PETINOV, N.S.; LEBEDEY, G.V.; BAGIROV, A.Yu.; YEGOROV, V.G.

Quality of tea grown under new irrigation conditions. Biokhim. chain. proizv. no.8:26-28 '60. (MIRA 14:1)

1. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva i Avrorskaya chaynaya fabrika Sovnarkhoza AzerbSSR. (Lehkoran Lowland-Tea--Irrigation)

LEBEDEV, G.V.			
Carbohydrate and tannin content of ripe tea leaves in connection with the irrigation of tea plantations. Biokhim. chain. proizv. no.8:57-62 '60. (MIRA 14:1)			
	iologii rasteniy im	eni K.A. Timirya	zeva AN SSSR,
Moskva. (Te	aIrrigation)	(Sugars)	(Tannins)

LEBEDEV, Gennadiy Vasil'yevich; PETINOV, N.S., otv. red.; POVOLOTSKAYA, K.L., red. izd-va; POLENOVA, T.P., tekhn. red.

[Tea cultivation under irrigation] Chainyi kust v usloviiakh orosheniia. Moskva, Izd-vo Akad. nauk SSSR, 1961. 103 p. (MIRA 14:6)

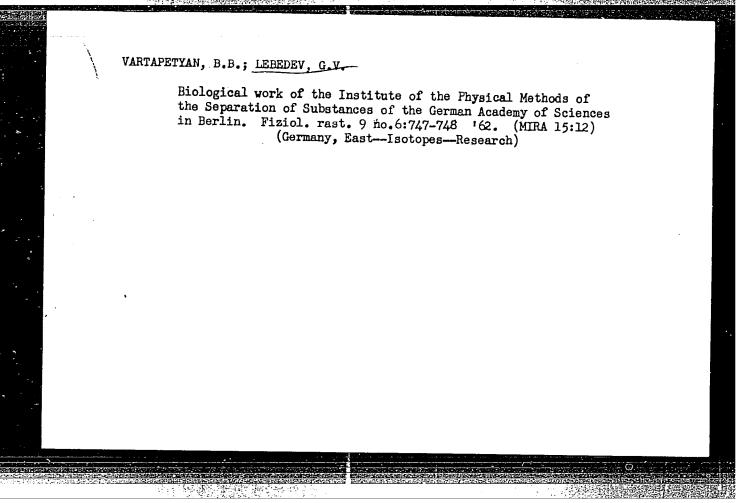
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New irrigation conditions of farm crops. Fiziol.rast. 9 no.4: 502-510 '62. (MIRA 15:9)

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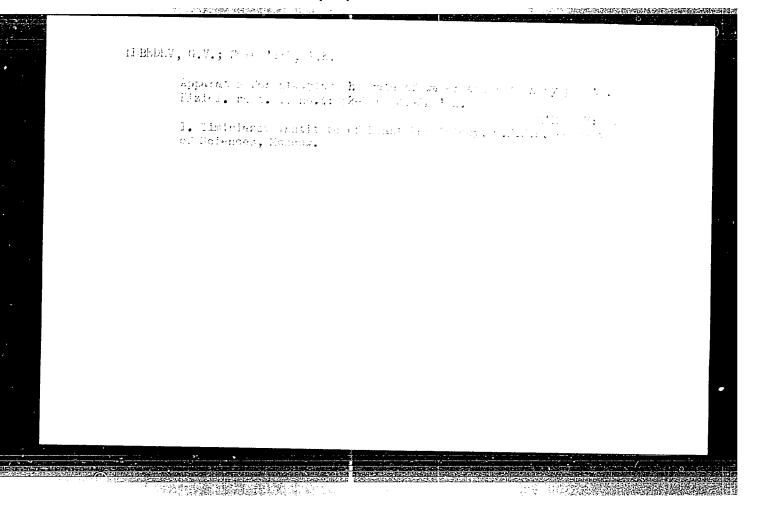
LEBEDEV, G.V.; SABININA, Ye.D.; CHUCHKIN, V.G.

State of water in the plant cell. Mobility of colloidal and crystal water. Fiziol. rast. 10 no.1:108-110 Ja-F '63.

1. K.A.Timiriazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

(Plant cells and tissues)

(Plants—Water requirements)



LEBEDEV, G.V.; CHUCHKIN, V.G.; SABININA, Ye.D.; BRYUKVIN, V.G.

Apparatus for continuous recording of water absorption by plants. Fiziol. rast. 11 no.6:1110-1114 N-D '64.

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1. Timiniazev Institute of Plant Physiology, U.S.S.R. Academy of Sciences, Moscow.

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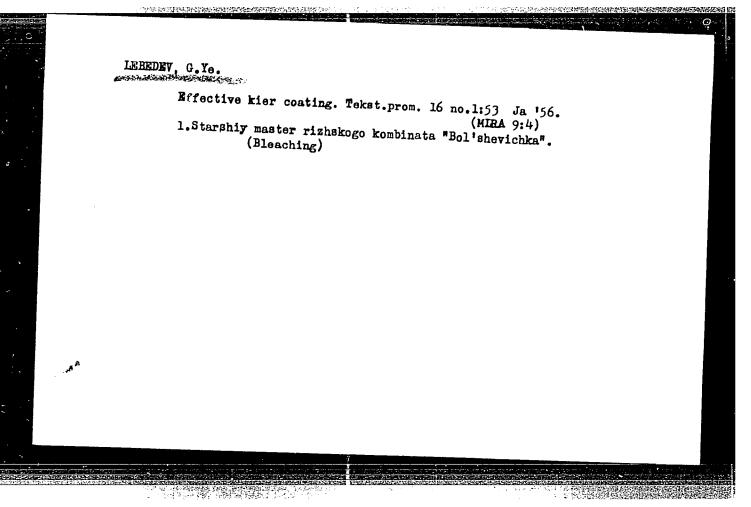
State of water in plant cells and water exchange in plant seeds. Fiziol. rast. 12 no.3:394-397 My-Je '65.

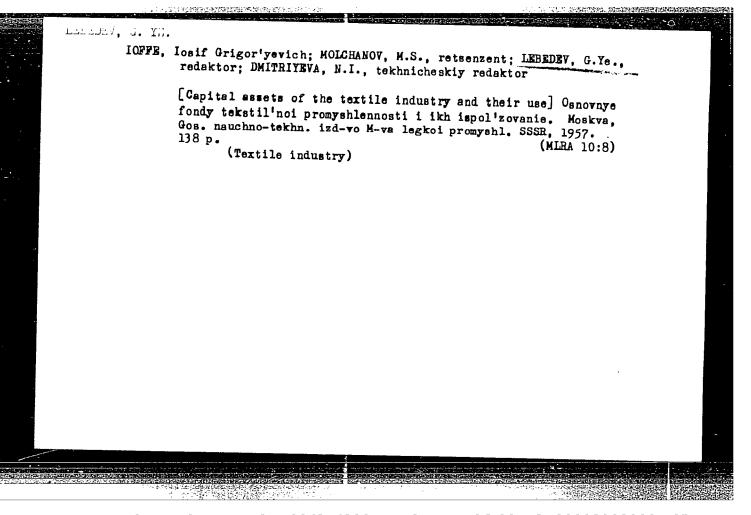
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l. Institut fiziologii rasteniy imeni K.A. Timiryazeva AN SSSR, Moskva.

RAGOL'SKIY, Semen Zakharovich, kand. tekhn. nauk; LEHEDEV, Georgiy Yakovlevich, inzh.

[Mechanization of the transportation of power transfission line supports] Mekhanizirovannye sredstva transportirovania opor linii elektroperedachi. Moskva. Gosstroiizdat, 1962. 41 p. (MIR 17:2)





ZUBCHANINOV, Vladimir Vasil'yevich; POLYAK, T.B., kandidat tekhnicheskikh nauk, retsenzent; ZAMAKHOVSKIY, L.I., kandidat tekhnicheskikh nauk, retsenzent; GLAZOV, Ya.I., redaktor; LEBEDRY, G. Ye., redaktor; DMITRIYEVA, N.I., tekhnicheskiy redaktor.

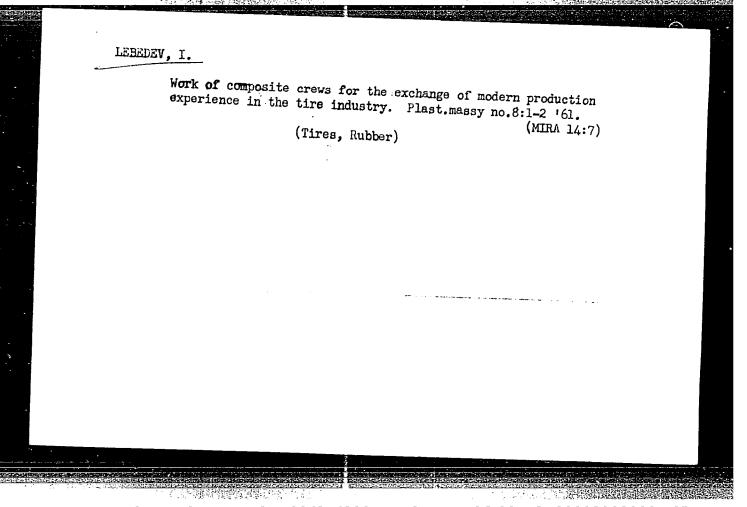
[Technical and economic analysis of present-day trends in developing cotton spinning and cotton weaving equipment in capitalist countries] Tekhniko-ekonomicheskii analiz sovremennykh napravlenii v razvitii khlopkopriadil'nogo i khlopkotkatskogo oborudovaniia v kapitalisticheskikh stranakh. Pod red. IA.I.Glazova. Moskva, Gos.nsuchnotekhn.izd-vo lit-ry po legkoi promyshl., 1957. 142 p. (MIRA 10:11) (Spinning machinery) (Looms)

DUBROVKIN, S.,inzh.; LEBEDEV, I.,inzh.

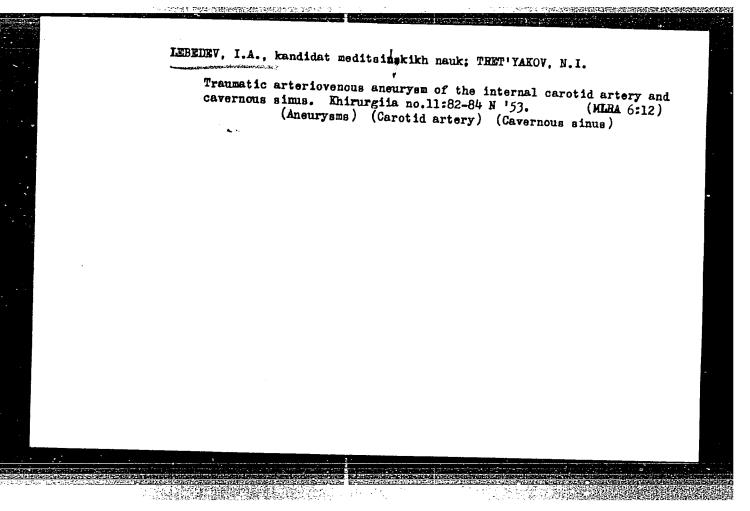
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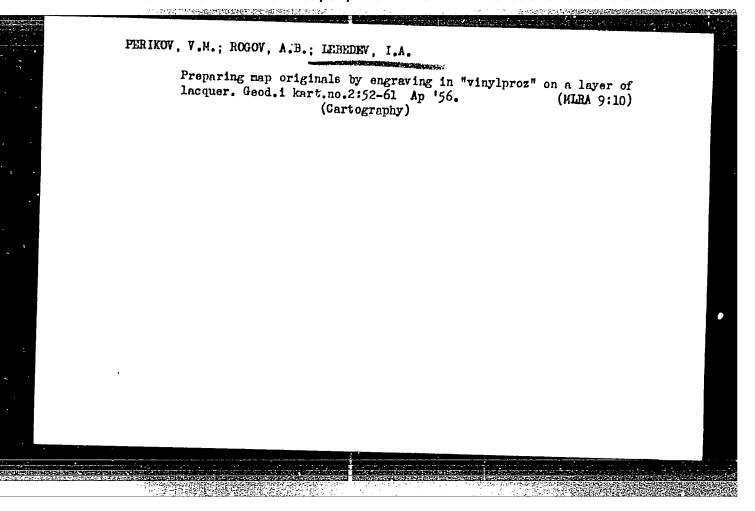
(Moscow--Apartment houses) (Sanitary engineering)

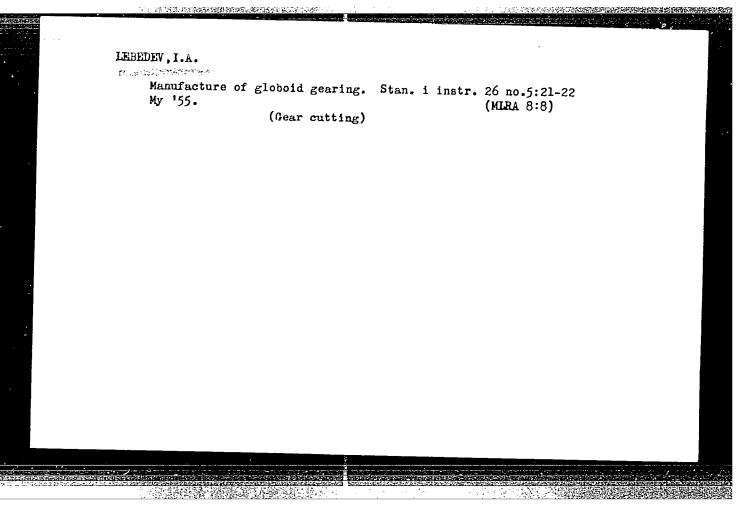
(Hot-water heating)

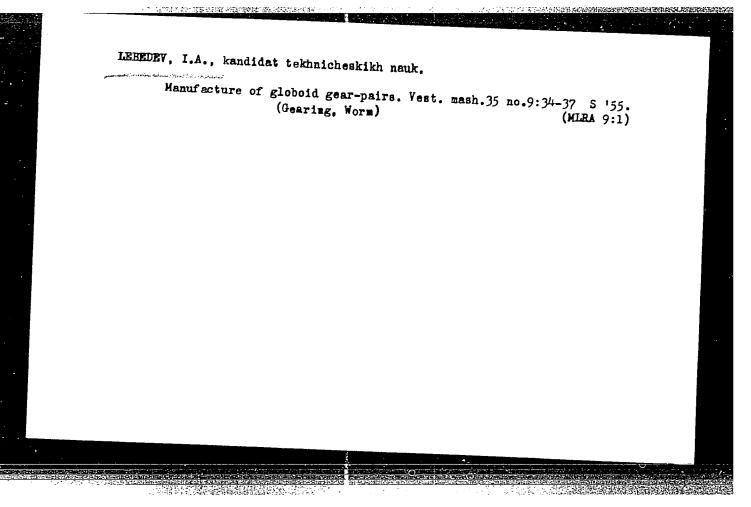


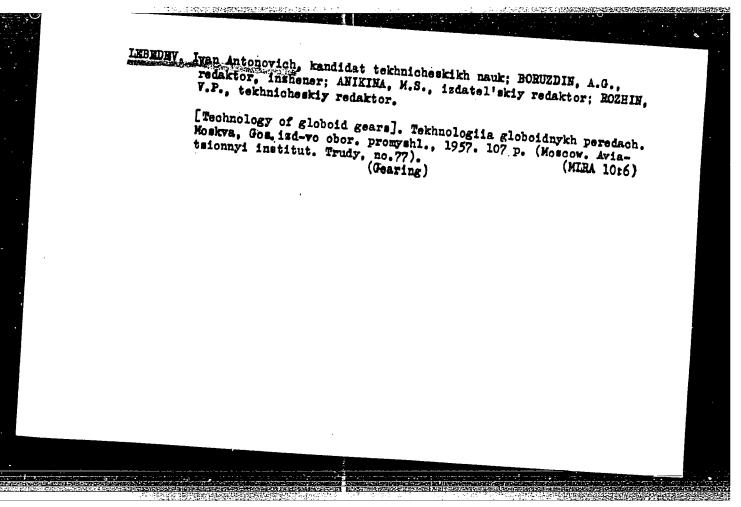
Answer to the editor's query. Gor. zhur. no.9:53 S '63. 1. Nachal'nik otdela tekhnicheskogo obrazovaniya Ministerstva vysshego i srednego spetsial'nogo obrazovaniya SSSR.





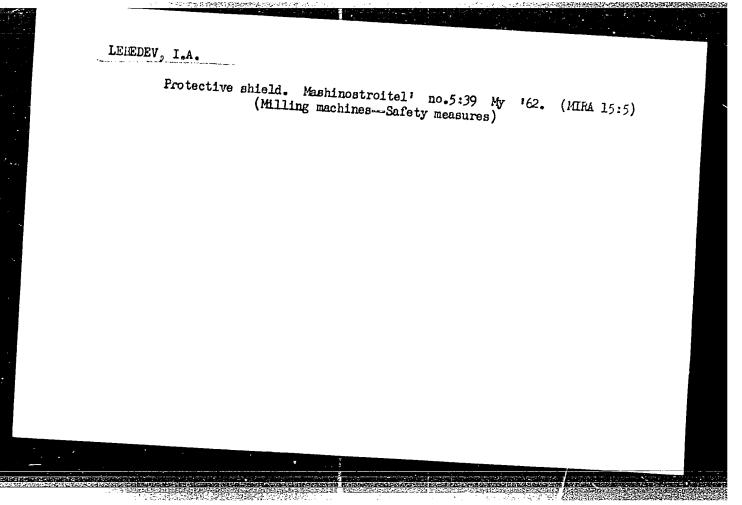






MUKHIN, Georgiy Ivanovich; POPOV, K.M., doktor ekon. nauk, prof., retsenzent; LEBEDEV, I.A., kand. ist. nauk, retsenzent; FISHCHEVA, T.V., red.

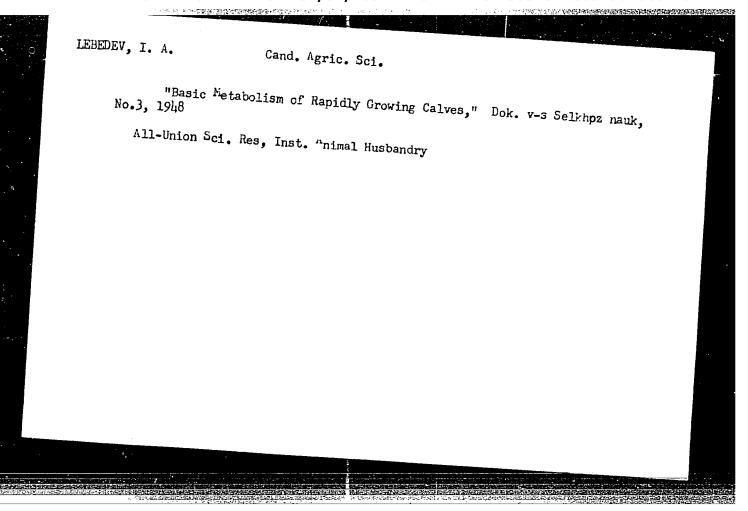
[Australia; physical geography and economic geography surveys. A textbook for the teacher] Avstraliia; fiziko-geograficheskii i ekonomiko-geograficheskii obzory. Posobie dlia uchitelia. Moskva, Izd-vo "Prosveshchenie," 1964.
291 p. (MIRA 17:7)



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Extraction of rhenium by pyridine bases. Zhur. neorg. khim.
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1. Institut atomnoy energii im I.V. Kurchatova. (Rhenium) (Pyridine bases)

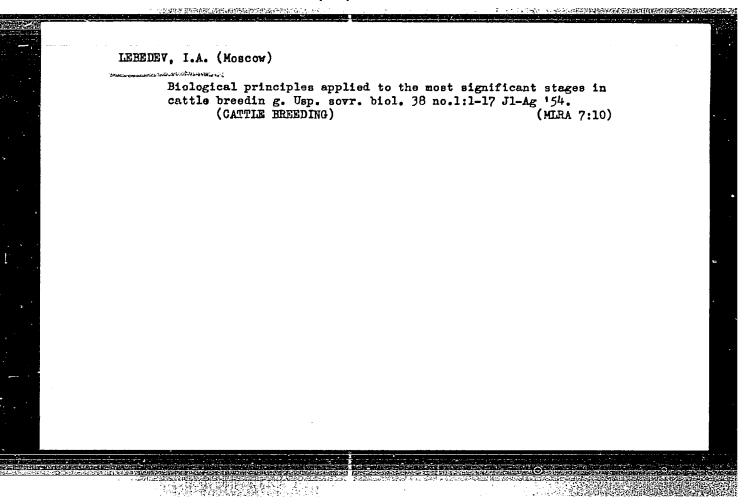


- 1. LET DEY, I. A.
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LIHWDEV, I					
Calves					
Feeding calve	s with migh-grade sile	ge. Kolkh. proizv.	, 12, no. 7, 1952		
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Monthly List o	f Russian Accessions,	Library of Congress	October 1952	UNCLASSIFIED.	
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LEBEDEV, I. A.

"Influence of Level and Type of Feeding on Growth and Development of Kholmogory Heifers and on Their Subsequent Milk Yield." Acad Sci USSR, Inst of Morphology of Animals imeni A. N. Severtsov, Moscow, 1955. (Dissertation for the Degree of Doctor of Biological Sciences)

SO: M-972, 20 Feb 56

LEBEDEV, I.A., red.; AZAROVA, O.A., red.; ZUERILINA, Z.P., tekhn.red.

[Advanced practice in raising calves] Peredovoi opyt po vyrashchivaniiu teliat. Izd. 3-e. Moskva, Cos.izd-vo sel'khoz. lit-ry, 1957. 116 p. (Bibliotechka zhivotnovoda po krupnomu rogatomu skotu, no.14)

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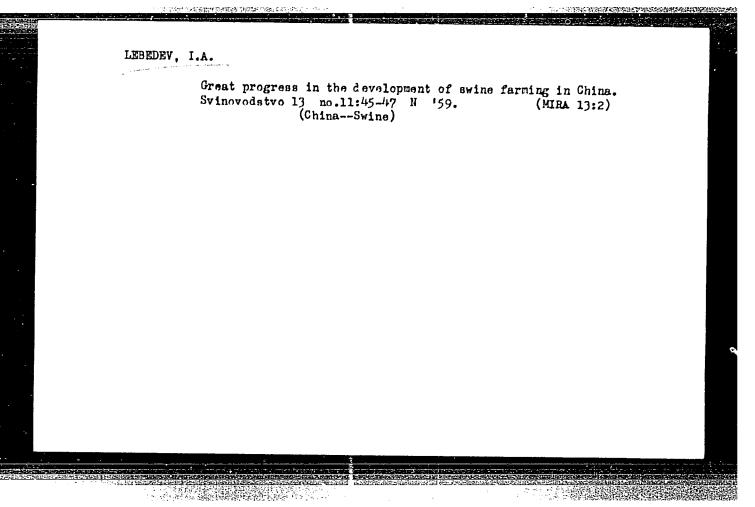
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SHAPAYEVA, Ye.S., otv.red.; LEBEDEV, I.A., otv.red.; ROGOVSKAYA, Ye.G., red.; VOLKOV, N.V., tekhn.red.

[Agroclimatic handbook for the Karelian A.S.S.R.] Agroklimaticheskii apravochnik po Karel'skoi ASSR. Leningrad, Gidrometeor.izd-vo, 1959.
183 p. (MIRA 13:11)

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IEBEDEV, Ivan Aleksandrovich, kand. sel'khoz. nauk; BRUSANOV, N.A., red.;

DEYEVA, V.M., tekhn. red.

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(Soybean) (Forage plants)

(MIRA 14:10)

是可能理解實際關於和自己的

LEBEDEV, I.A., kand. sel'skokhoz. nauk

Plenum of the Coordination Council on problems in livestock feeding. Zhivotnovodstvo 24 no.6:86-87 Je '62.

(MIRA 17:3)

LABEDEV, I. A., SPITSYN, V.I., PIKAYEV, A. K., and SAVICH, I. A.

"Synthesis of a Number of Schiff Bases Derived From Aromatic o-Hydroxyaldehydes and Heterocyclic Amines," by I. A. Savich, A. K. Pikayev, I. A. Labedev, and V. I. Spitsyn, Chair of Inorganic Chemistry, Moscow State University, Vestnik Moskovskogo Universiteta, Vol 11, No 1, Jan/Feb 57, pp 225-231

According to the text of the paper, 13 hitherto unknown Schiff bases have been synthesized. Their properties are described. It has been established that these bases can be used for the precipitation of a number of cations. The precipitates formed by Cu +4, M+4, Ag+, Fe++, Fe+++, Co +4, Cr +4+, La +4++, and Zr +4 with 2-(2-hydroxy-1-naphthylumino) pyridine were found to have specific colors which vary from cation to cation. These colors are listed.

[Comment: Methods for the precipitation and analytical determination of uranium, zirconium, and lanthanum are of importance in connection with nuclear energy work.]

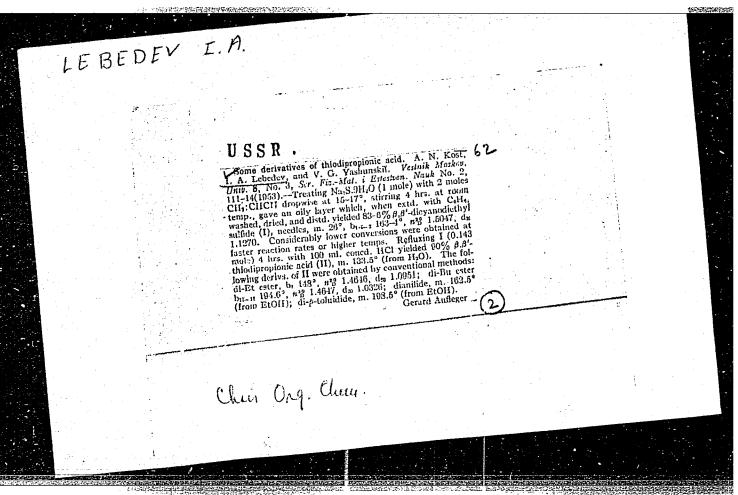
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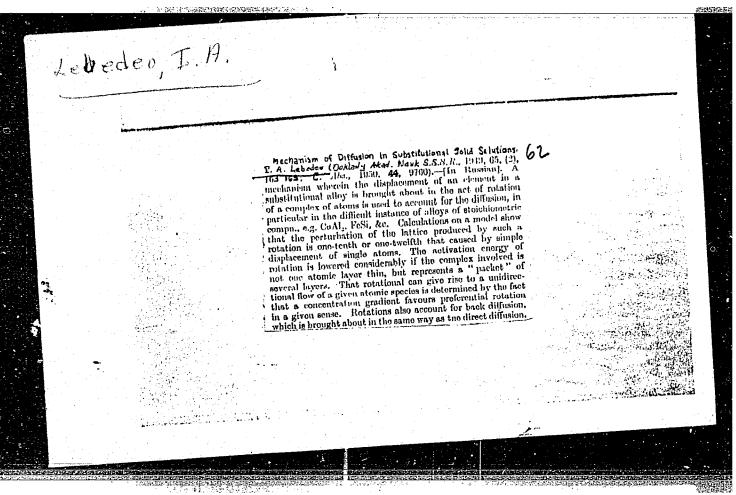
LEBEDEV, I. A., SPITSYN, V.I., SAVICH, I. A., and PIKAYEV, A. K.

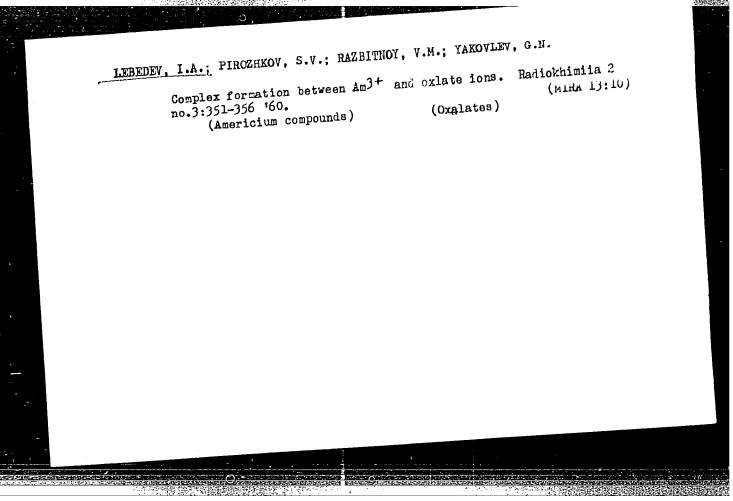
"Complex Compounds of Hexavalent Uranium With Some Organic Substances; Part 1 -- Inner Complex Compounds of Uranium With Some Schiff Bases," by I. A. Savich, A. K. Pikayev, I. A. Lebedev, and V. I. Spitsyn, Moscow State University, Zhurnal Neorganicheskoy Khimii, Vol 1, No 12, Dec 56, pp 2736-2741

The article describes the methods of preparation and properties of ten new inner-complex salts of hexavalent uranium with Schiff bases derived from aromatic hydroxy-aldehydes and heterocyclic amines.

Sum 1258







5/186/60/002/005/006/017 A051/A130

21.3100

AUTHORS:

Lebedev, I. A.; Pirozhkov, S. V.; Yakovlev, G. N;

TITLE:

Determination of the composition and instability constants of oxalate, nitrate and sulfate Am(III) and Cm(III) complexes by

the ion-exchange method.

PERIODICAL: Radiokhimiya, v.2, no. 5, 1960, 549 - 558

TEXT: (III) The article deals with a study of complex-formation of Am (III) and Cm (III) with oxalate-, nitrate- and sulfate- ions, using the ion-exchange method on the cationite. The complex-formation of Pu (III) in oxalate solutions was investigated in particular (Page 5.4.2) solutions was investigated in particular (Ref. 5: A.D. Gel'man, N.N. Matorina, A.I. Moskvin, Atomnaya energiya, 4, 1, 52, 1958). It is pointed out that the method in question has received wide application in recent times for determining the composition and instability constants of the complex ions of radioactive elements. Mention is made of Ref. 6 (V. V. Fomin, Usp. Khim. 24,8, 1010, 1955) as outlining the calculation method for the various cases. The experiments were conducted on indicator quantities of $\Delta m^2 41$ and $Cm^2 42$ isotopes, the concentration of which was about 105 decays/

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CIA-RDP86-00513R000929020001-8" APPROVED FOR RELEASE: 08/31/2001

5/186/60/002/005/006/017 A051/A130

Determination of the composition and

min.ml in the initial solution. A KY-2 (KU-2) cationite was used as the sorbent (grain size 140 - 200 mesh). In order to determine the distribution coefficient of the metal, the weighed resin portion between the cationite and solution, was brought to equilibrium with a certain volume of the solution, containing known concentrations of Am and Cm and ammonium salt of the corresponding acid. Experiments were conducted at 20 - 25°C (room temperature). The effect was determined of the pH on ϕ (distribution coefficient) ure). The effect was determined of the ph on 7 (distribution coefficient) of Am³ in the absence of a complex-forming agent (φ_0), since the experiments were carried out at various pH of the solution. Table 1 gives the results of these determinations, indicating that with a change of the pH from 1.5 to 4.4, φ does not actually change. Certain experiments showed that: 1) the change of the resin and solution ratio (b) does not affect φ , 2) the effect of the resin swelling on the solution volume does not exist, 3) an equilibrium in the system cationite-solution under the given conditions (ion strength μ = 0.2 - 1.5, ph 1.5 - 4.0) is reached in 3 - 4 hours. Table 9 2 - 8 and graphs 1 - 3 give the experimental data on the relationship of ϕ of Am(III) and Cm(III) to the concentration of the nitrate-, sulfate- and oxalate ions. ϕ was calculated from results of the analysis according to

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20651 S/186/60/002/005/006/01? A051/A130

Determination of the composition and

the following formula:

$$\varphi = \frac{c_0 - c_M}{bc_m} \tag{1}.$$

The activity of the oxalate ions was calculated from the formula:

$${}^{a}C_{2}O_{4}^{2-} = \frac{B}{\frac{1}{7^{2}} + \frac{a_{H}^{+}}{\gamma_{1}K''} + \frac{a_{H}^{2+}}{K'K''}}$$
(2)

where B is the concentration of the ammonium oxalate, aux activity of the hydrogen ions, K' and K" - I and II constants of dissociation of oxalic acid, hydrogen ions, K' and K" - I and II constants of dissociation of oxalic acid, equalling 5.36 \cdot 10⁻² (Ref. 7: B.S. Darken, J. Am. Chem. oc., 63, 1007, equalling 5.36 \cdot 10⁻⁵ (Ref. 8: G. D. Pinching, R. G. Bates. J. Reseach 1941) and 5.42 \cdot 10⁻⁵ (Ref. 8: G. D. Pinching, R. G. Bates. J. Reseach Int. Bur. Stand. 40, 405, 1948), respectively. The values of the activity coefficients of the uni- and two-charge ions (γ_1 and γ_2) for the oxalate so-coefficients of the uni- and two-charge ions (γ_1 and γ_2) for the oxalate solutions were taken by the authors from Ref. 9 (C.E. Crouthamel, D. S. Martin, Card 3/14

20651 s/186/60602/005/006/017

Determination of the composition and ...

J. Am. Chem. Soc., 73, 569, 1951). The functions Ψ_1 , Ψ_2 , Ψ_3 were calculated from experimental data according to formula (3), showing the relationship of the distribution coefficient of the metal during sorption on the cationite, to the concentration of the complex-forming agent, are connected with the stability constants of the complex ions:

$$\varphi = \varphi_{0} = \frac{1 + \sum_{j=1}^{p-r} 1_{j} [A]^{j}}{1 + \sum_{j=1}^{n} i [A]^{j}}$$
(3)

where $_{i}$ are the general stability constants of the complex ions, [A] - the concentration (activity) of the addend; n - maximum number of addends, bound to an ion of metal; l_{j} - the constants for the given systems (at constant ionic strength and constant concentration of the exchanging cation), connected with the sorption of the complex cations; p - metal charge; r - charge of the addend. By introducing the functions:

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Determination of the composition and

$$\psi = \frac{\psi_0}{\rho} - 1 \qquad (4); \qquad \psi_1 = \frac{\psi}{A} \qquad (5) \qquad \text{and} \qquad \psi_2 = \frac{\psi_1}{\psi_1} - 1$$
the following expression is derived:

the following expression is derived:

$$\psi = \frac{(\beta_1 - l_1) \left[A \right] + (\beta_2 - l_2) \left[A \right]^2 + \beta_3 \left[A \right]^3 + \dots}{1 + l_1 \left[A \right] + l_2 \left[A \right]^2} \tag{7}$$

since the complex formation of tri-valent cation is studied, p - r $\!\!\!<\!\!\!<\!\!2$, then no more than two $\!\!\!^{1}j$ should be taken, thus:

$$\Psi_{1} = \frac{\beta_{1} - 1_{1} + (\beta_{2} - 1_{2}) \left[A\right] + \beta_{3} \left[A\right]^{2} \cdots}{1 + 1_{1} \left[A\right] + 1_{2} \left[A\right]^{2}}$$
(8)

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CIA-RDP86-00513R000929020001-8" APPROVED FOR RELEASE: 08/31/2001

S/186/60/002/005/006/017 A051/A130

Determination of the composition and

$$\psi_{1}^{0} = \beta_{1} - 1_{1}'$$
(9)

$$\psi_{2} = \frac{\beta_{2} - 1_{2}}{\psi_{1}^{0}} - 1_{1} + \left(\frac{\beta_{3}}{\psi_{1}^{0}} - 1_{2}\right) \left[A\right] + \dots}{1 + 1_{1} \left[A\right] - 1_{2} \left[A\right]^{2}}$$
(10)

$$\psi_2^0 = \frac{\beta_2 - 1_2}{\psi_1^0} - 1_1 \tag{11}$$

Taking into account the low values of l₁ and l₂ it is seen that in the case of complex-formation with one addend, the slope of the curve of this relationship is equal to 1, with two about 2, with three more than 2, etc. Further, the stability constants of these complex ions can be calculated

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S/186/60/002/005/006/017 A051/A130

Determination of the composition and

from the successive calculation of the values of ψ_i^0 (by extrapolating) the successive calculation of the values of Ψ_i (by extrapolating) k[A] = 0, the relationship of Ψ_i to A. The authors state that if the sorption of the complex is disregarded as compared to the sorption of the formulae (3) free ion of metal, then in formulae (3) - (11), the values of 1; can be left out, and then

and then
$$\psi_1^0 = \beta_1 \qquad (12), \qquad \psi_2^0 = \frac{\beta_2}{1} \qquad (13)$$

If the sorption of the complex cation is not disregarded, then the value of β, can be computed in the following manner: the function is calculated for several points:

$$\phi = \frac{\frac{\varphi_0}{\varphi} (\psi_1^0 [A] - 1) + 1}{[A]^2}$$
 (14)

After having found the value of ϕ^0 by extrapolating the dependence ϕ from [A] to [A] = 0 a graph indicating the dependence of Card 7/14